

**SYSTEM, METHOD, AND ARTICLE OF MANUFACTURE FOR ESTIMATING  
A POTENTIAL PERFORMANCE OF A CODESIGN FROM AN EXECUTABLE  
SPECIFICATION**

**ABSTRACT**

5 A system, method and article of manufacture are provided for estimating a potential performance of a codesign from an executable specification. First, commands relating to functions are received. The commands are compiled into an executable hardware model. The model is executed in a virtual operating environment. Profiling data is generated during execution and analyzed. A list of data transfers between at least a portion of the functions is output. Also output is an estimate of running time of each function.